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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock  
NEWS 2 Jun 03 New e-mail delivery for search results now available  
NEWS 4 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 5 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 7 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 11 Oct 24 BEILSTEIN adds new search fields  
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 14 Nov 25 More calculated properties added to REGISTRY  
NEWS 15 Dec 04 CSA files on STN  
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 17 Dec 17 TOXCENTER enhanced with additional content  
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC  
NEWS 20 Feb 13 CANCERLIT is no longer being updated  
NEWS 21 Feb 24 METADEX enhancements  
NEWS 22 Feb 24 PCTGEN now available on STN  
NEWS 23 Feb 24 TEMA now available on STN  
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 25 Feb 26 PCTFULL now contains images  
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
NEWS 27 Mar 19 APOLLIT offering free connect time in April 2003  
NEWS 28 Mar 20 EVENTLINE will be removed from STN  
NEWS 29 Mar 24 PATDPAFULL now available on STN  
NEWS 30 Mar 24 Additional information for trade-named substances without  
structures available in REGISTRY  
NEWS 31 Apr 11 Display formats in DGENE enhanced  
NEWS 32 Apr 14 MEDLINE Reload  
NEWS 33 Apr 17 Polymer searching in REGISTRY enhanced  
NEWS 34 Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS  
NEWS 35 Apr 21 New current-awareness alert (SDI) frequency in  
WFIDS/WPINDEX/WPIX  
  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:35:36 ON 26 APR 2003

=> file biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'BIOSIS' ENTERED AT 14:35:48 ON 26 APR 2003

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FILE COVERS 1969 TO DATE

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 23 April 2003 (20030423/ED)

=> e martin a/au

E1	1	MARTIMUCCI W A/AU
E2	6	MARTIN/AU
E3	1132 -->	MARTIN A/AU
E4	86	MARTIN A A/AU
E5	1	MARTIN A ALONSO/AU
E6	1	MARTIN A ARANAZ/AU
E7	17	MARTIN A B/AU
E8	11	MARTIN A C/AU
E9	11	MARTIN A C R/AU
E10	82	MARTIN A D/AU
E11	3	MARTIN A D E/AU
E12	10	MARTIN A DANIEL/AU

=> s e3

L1 1132 "MARTIN A"/AU

=> s urushiol

	162	URUSHIOL
	28	URUSHIOLS
L2	174	URUSHIOL
		(URUSHIOL OR URUSHIOLS)

=> s l1 and l2

L3 0 L1 AND L2

=> s cancer? or tumor? or melanoma or neopla? or carcinoma

439964 CANCER?

676583 TUMOR?

48862 MELANOMA

6182 MELANOMAS

39 MELANOMATA

50359 MELANOMA

(MELANOMA OR MELANOMAS OR MELANOMATA)

414284 NEOPLA?

254451 CARCINOMA

44729 CARCINOMAS

251 CARCINOMATA

272375 CARCINOMA

(CARCINOMA OR CARCINOMAS OR CARCINOMATA)

L4 1175666 CANCER? OR TUMOR? OR MELANOMA OR NEOPLA? OR CARCINOMA

=> s 11 and 14

L5 5 L2 AND L4

=> save temp

ENTER L#, L# FANGE, ALL, OR (END):15

ENTER NAME OR (END) urushiol/a

ANSWER SET L5 HAS BEEN SAVED AS 'URUSHIOL/A'

=> d 15 1-5 dn ti au so ab

L5 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

DN PREV200100417684

TI Ethanol eluted extract of *Rhus verniciflua* Stokes showed both antioxidant and cytotoxic effects on mouse thymocytes depending on the dose and time of the treatment.

AU Lee, Jeong-Chae; Kim, Ju; Lim, Kye-Taek; Yang, Moon-Sik; Jang, Yong-Suk (1)

SO Journal of Biochemistry and Molecular Biology, (May, 2001) Vol. 34, No. 3, pp. 150-153. print.  
ISSN: 1225-8687.

AB For a long time *Rhus verniciflua* Stokes (RVS) has traditionally been used as a herbal plant. It is known to contain various biological activities. Previously, a crude ethanol extract from RVS was reported to have antioxidant effects, and antiproliferative activities, on human **cancer** cell lines. In this report, we prepared a highly purified ethanol extract from RVS, which did not contain the **urushiol** derivatives, named REEE-1 (*Rhus* ethanol eluted extract-1), to investigate the mechanisms of the scavenging activity of hydroxyl radicals using mouse thymocytes. The results from the deoxyribose, DNA nicking, and glucose/glucose oxidase enzyme assays showed that REEE-1 contained a strong scavenging activity of oxygen free radicals, especially of hydroxyl radicals. However, interestingly, REEE-1 also showed cytotoxicity against the thymocytes, although the effect was variable, depending on the concentrations and times of treatment. The REEE-1-mediated cytotoxicity against thymocytes, which has been used as one of the well-characterized models for apoptosis studies, was verified to apoptotic. This was proven by the following: the appearance of DNA laddering, increases in DNA fragmentation, low fluorescence intensity in the nuclei after propidium iodide staining, and positive Annexin V staining of the cells. These results suggested that REEE-1 had both antioxidative activity and cytotoxicity against the thymocytes, although the effect of the cytotoxicity was variable, depending on the dose and time of the treatment.

L5 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

DN PREV200100404758

TI Cytotoxic effect of **urushiol** on human ovarian **cancer** cells.

AU Choi, Ju-Youn; Park, Chang-Seo; Choi, Jongch; Rhim, Hyangshuk; Chun, Heung Jae (1)

SO Journal of Microbiology and Biotechnology, (June, 2001) Vol. 11, No. 3, pp. 399-405. print.  
ISSN: 1017-7825

AB **Urushiol**, a natural pro-electrophilic quinone compound, has

potential structural characteristics as antitumor chemotherapeutic agents. However, **urushiol**'s use as an antitumor drug has some problems, because it is hardly miscible with an aqueous solution. Purified **urushiol** is highly viscous and soluble only in strong solvents. For this study, we prepared an **urushiol**-ethanol micro-emulsion with a unimodal size distribution by high-speed homogenization. This generated effective delivery of **urushiol** to its action sites, so that we could investigate its cytotoxic activity against **cancer** cells. Using a colony-forming assay, we were able to show that **urushiol** selectively inhibited the growth of the ovarian **cancer** cells FA-1 and 2774 at a concentration of  $10^{-6}$  M, whereas it had only a negligible effect on normal CHO cells at the same concentration. The data suggest that **urushiol** may have potential as an effective antitumor agent in the treatment of ovarian **cancer**. In addition, we addressed the question of whether the specific cytotoxic effect of **urushiol** is linked to apoptosis, by DNA fragmentation and DAPI staining assays. The inhibitory effects of **urushiol** on the growth of ovarian **cancer** cells was found to be associated with DNA fragmentation and the fragmented nuclei formation, both of which represent markers for the induction of apoptosis. Therefore, the results suggested that **urushiol** affected its profound cytotoxicity by triggering apoptosis in ovarian **cancer** cells.

- L5 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 DN PREV200000093180  
 TI Cytotoxicity of **urushiols** isolated from sap of Korean lacquer tree (*Rhus vernicifera* Stokes).  
 AU Hong, Dong Ho; Han, Sang Bae; Lee, Chang Woo; Park, Se Hyung; Jeon, Young Jin; Kim, Myong-Jo; Kwak, Sang-Soo; Kim, Hwan Mook (1)  
 SO Archives of Pharmacal Research (Seoul), (Dec., 1999) Vol. 22, No. 6, pp. 638-641.  
 ISSN: 0253-6269.  
 AB Cytotoxicities of four **urushiols**, congeners isolated from the sap of Korean lacquer tree (*Rhus vernicifera* Stokes), to 29 human **cancer** cell lines originated from 9 organs were evaluated. Their values of 50% growth inhibition were below 4  $\mu$ g/ml, and showed cell line specific cytotoxicity. The present result is the first report on the cytotoxicity of **urushiols** suggesting that they would have an anticancer activity to human **cancer** cells.
- L5 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 DN BR43:20705  
 TI HUMAN EPIDERMAL CYTOKINE TRANSCRIPT LEVEL CHANGES IN-SITU FOLLOWING **URUSHIOL** APPLICATION.  
 AU BOEHM K D; YUN J K; STROHL K P; ELMETS C  
 SO MEETING OF THE SOCIETY OF INVESTIGATIVE DERMATOLOGY, BALTIMORE, MARYLAND, USA, APRIL 29-MAY 2, 1992. CLIN RES. (1992) 40 (2), 465A.  
 CODEN: CLREAS. ISSN: 0009-9279.
- L5 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 DN BA78:84903  
 TI A STUDY OF CHEMICALS IN THE WOOD AND ASSOCIATED INDUSTRIES FOR THE SELECTION OF CANDIDATES FOR CARCINOGEN BIOASSAY 1. NATURALLY OCCURRING WOOD CHEMICALS.  
 AU SIGMAN C C; HELMES C T; FAY J R; LUNDQUIST P L; PERRY L R  
 SO J ENVIRON SCI HEALTH PART A ENVIRON SCI ENG, (1984) 19 (5), 523-578.  
 CODEN: JESEDU. ISSN: 0360-1226.  
 AB Naturally-occurring wood chemicals were studied in order to nominate chemicals to the National **Cancer** Institute's Chemical Selection Working Group as candidates for carcinogenesis bioassay. After application of several qualifying criteria relating to previous, current, or planned carcinogenicity tests and to verification of the identity and occurrences in wood, the preliminary candidate list of approx. 300 compounds was reduced to a final candidate list of 248 chemicals. Based on consideration

of possible carcinogenic activity and evidence indicating potential exposure, the following 11 chemicals were nominated: abietic acid, cardol and **urushiol** (as a pair representing alkenyl/alkanyl catechols), coniferyl aldehyde, ellagic acid, kaempferol, lapachol, 4-methoxydalbergione, podophyllotoxin, pterostilbene and alpha.-terpineol. Although they are naturally-occurring, 2 of these chemicals, abietic acid and alpha.-terpineol, were nominated primarily on the basis of their commercial significance.

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

15.49

15.70

STN INTERNATIONAL LOGOFF AT 14:40:03 ON 26 APR 2003

878,466

L Number	Hits	Search Text	DB	Time stamp
1	333	(424/277.1).CCLS.	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:37
2	709	(424/278.1).CCLS.	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:37
3	348	(514/34).CCLS.	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:37
4	311	(514/152).CCLS.	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:37
5	107	(514/154).CCLS.	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:37
6	417	(514/731).CCLS.	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:37
7	116	(514/732).CCLS.	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:37
8	117	(514/734).CCLS.	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:39
9	2337	((424/277.1).CCLS.) or ((424/278.1).CCLS.) or ((514/34).CCLS.) or ((514/152).CCLS.) or ((514/154).CCLS.) or ((514/731).CCLS.) or ((514/732).CCLS.) or ((514/734).CCLS.)	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:39
10	199	urushiol	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 16:39
11	7	((424/277.1).CCLS.) or ((424/278.1).CCLS.) or ((514/34).CCLS.) or ((514/152).CCLS.) or ((514/154).CCLS.) or ((514/731).CCLS.) or ((514/732).CCLS.) or ((514/734).CCLS.)) and urushiol	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 17:01
12	161252	cancer\$5 or tumor\$5 or melanoma or neoplas\$5 or carcinoma	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 17:02
13	8	urushiol with (cancer\$5 or tumor\$5 or melanoma or neoplas\$5 or carcinoma)	USFAT; US-PGPUB; EPC; DEFWENT	2003/04/26 17:03